

COMMITTEE OF EXPERTS ON THE TRANSPORT OF DANGEROUS GOODS AND ON THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS

Sub-Committee of Experts on the Globally Harmonized System of Classification and Labelling of Chemicals

Eleventh session, 12 (p.m)-14 July 2006
Item 4(a) of the provisional agenda

IMPLEMENTATION OF THE GHS

Implementation through Transport of Dangerous Goods Regulations

Note by the secretariat

The secretariat reproduces below a table concerning the status of implementation of the GHS through the 14th revised edition of the UN Model Regulations on the Transport of Dangerous Goods and the major legal international instruments regulating transport of dangerous goods:

- By sea:** International Maritime Dangerous Goods Code (IMDG Code)
Amendment 33-06 will be harmonized (except as otherwise specified in the table hereafter) with the 14th revised edition of the UN Model Regulations and will enter into force as from 1 January 2008, being applicable on a voluntary basis as from 1 January 2007. The IMDG Code is of mandatory application for 155 countries.
- By air:** ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air
2007-2008 edition of the ICAO TI will be harmonized (except as otherwise specified in the table hereafter) with the 14th revised edition of the UN Model Regulations and will enter into force as from 1 January 2007. (The ICAO TI are of mandatory application for 188 countries).
- Land transport:**
- ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road (40 Contracting Parties) (the annexed regulations are also of mandatory application for domestic traffic in EU and EEA countries through European directive 94/55/EC, as amended).
- RID:** Regulations concerning the International Transport of Dangerous Goods by Rail (42 Contracting Parties) (also of mandatory application for domestic traffic in EU and EEA countries through European directive 96/49/EC, as amended).
- ADN:** European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) (5 Contracting States, not yet in force, but the provisions are applicable on the Rhine (ADNR) and on the Danube (ADND)).

The 2007 edition of ADR/RID/ADN will be harmonized (except as otherwise specified in the table hereafter) with the 14th revised edition of the UN Model Regulations and will enter into force as from 1 January 2007.

GHS hazards addressed in transport regulations	Model Regulations (Rev.14)	IMDG Code		ICAO TI		RID/ADR/ADN	
		Amendment 32-04 ^a	Amendment 33-06 ^b	(2005-2006 Edition) ^c	(2007-2008 Edition) ^d	2005 Edition ^e	2007 Edition ^f
Chapter 2.1: Explosives	(Class 1)	(Class 1)		(Class 1)		(Class 1)	
Divisions 1.1 to 1.6	Done (Divisions 1.1 to 1.6)	Already applicable		Already applicable		Already applicable	
Chapter 2.2: Flammable gases	(Class 2, Division 2.1)	(Class 2, Division 2.1)		(Class 2, Division 2.1)		(Class 2, Division 2.1)	
Category 1	Done	Already applicable		Already applicable		Already applicable	
Category 2	<i>Not applicable</i>	<i>Not applicable</i>		<i>Not applicable</i>		<i>Not applicable</i>	
Chapter 2.3: Flammable aerosols	(Class 2)	(Class 2)		(Class 2)		(Class 2)	
Category 1	Done	Already applicable		Already applicable		Already applicable	
Category 2	Done	Already applicable		Already applicable		Already applicable	
Chapter 2.4: Oxidizing gases	(Division 2.2 gases)	(Division 2.2 gases)		(Division 2.2 gases)		(Division 2.2 gases)	
Category 1	Done	Already applicable		Already applicable		Already applicable	
Chapter 2.5: Gases under pressure	(Class 2)	(Class 2)		(Class 2)		(Class 2)	
Compressed gases	Done	Already applicable		Already applicable		Already applicable	
Liquefied gases	Done	Already applicable		Already applicable		Already applicable	
Refrigerated liquefied gases	Done	Already applicable		Already applicable		Already applicable	
Dissolved gases	Done	Already applicable		Already applicable		Already applicable	

^a Amendment 32-04 to the IMDG Code will enter into force on 1 January 2006 without transitional period but could be applied, on a voluntary basis, totally or partially, as from 1 January 2005.

^b Amendment 33-06 to the IMDG Code will enter into force on 1 January 2008 without transitional period but may be applied, on a voluntary basis, totally or partially, as from 1 January 2007.

^c The 2005-2006 edition of the ICAO TI entered into force on 1 January 2005.

^d The 2007-2008 edition of the ICAO TI will enter into force on 1 January 2007.

^e The 2005 version of the RID/ADR/ADN entered into force on 1 January 2005.

^f The 2007 version of the RID/ADR/ADN will enter into force on 1 January 2007.

GHS hazards addressed in transport regulations	Model Regulations (Rev.14)	IMDG Code		ICAO TI		RID/ADR/ADN	
		Amendment 32-04 ^a	Amendment 33-06 ^b	(2005-2006 Edition) ^c	(2007-2008 Edition) ^d	2005 Edition ^e	2007 Edition ^f
Chapter 2.6: Flammable liquids	(Class 3)	(Class 3)		(Class 3)		(Class 3)	
Category 1	Done (PGI)	Already applicable		Already applicable		Already applicable	
Category 2	Done (PGII)	Already applicable		Already applicable		Already applicable	
Category 3	Done	Not done	Done	Not done	Done	Not done	Done
Category 4	<i>Not applicable</i>	<i>Not applicable</i>		<i>Not applicable</i>		<i>Not applicable</i>	
Chapter 2.7: Flammable solids	(Class 4, Division 4.1)	(Class 4, Division 4.1)		(Class 4, Division 4.1)		(Class 4, Division 4.1)	
Category 1	Done (PG II)	Already applicable		Already applicable		Already applicable	
Category 2	Done (PG III)	Already applicable		Already applicable		Already applicable	
Chapter 2.8: Self-reactive substances	(Class 4, Division 4.2)	(Class 4, Division 4.2)		(Class 4, Division 4.2)		(Class 4, Division 4.2)	
Types A to G	Done	Already applicable		Already applicable		Already applicable	
Chapter 2.9: Pyrophoric liquids	(Class 4, Division 4.2)	(Class 4, Division 4.2)		(Class 4, Division 4.2)		(Class 4, Division 4.2)	
Category 1	Done (PG I)	Already applicable		Already applicable		Already applicable	
Chapter 2.10: Pyrophoric solids	(Class 4, Division 4.2)	(Class 4, Division 4.2)		(Class 4, Division 4.2)		(Class 4, Division 4.2)	
Category 1	Done (PG I)	Already applicable		Already applicable		Already applicable	
Chapter 2.11: Self-heating substances	(Class 4, Division 4.2)	(Class 4, Division 4.2)		(Class 4, Division 4.2)		(Class 4, Division 4.2)	
Category 1	Done (PG II)	Already applicable		Already applicable		Already applicable	
Category 2	Done (PG III)	Already applicable		Already applicable		Already applicable	
Chapter 2.12: Substances which, in contact with water, emit flammable gases	(Class 4, Division 4.3)	(Class 4, Division 4.3)		(Class 4, Division 4.3)		(Class 4, Division 4.3)	
Category 1	Done (PGI)	Already applicable		Already applicable		Already applicable	
Category 2	Done (PGII)	Already applicable		Already applicable		Already applicable	
Category 3	Done (PGIII)	Already applicable		Already applicable		Already applicable	

GHS hazards addressed in transport regulations		Model Regulations (Rev.14)	IMDG Code		ICAO TI		RID/ADR/ADN	
			Amendment 32-04 ^a	Amendment 33-06 ^b	(2005-2006 Edition) ^c	(2007-2008 Edition) ^d	2005 Edition ^e	2007 Edition ^f
Chapter 2.13: Oxidizing liquids		(Class 5, Division 5.1)	(Class 5, Division 5.1)		(Class 5, Division 5.1)		(Class 5, Division 5.1)	
	Category 1	Done (PGI)	Already applicable		Already applicable		Already applicable	
	Category 2	Done (PGII)	Already applicable		Already applicable		Already applicable	
	Category 3	Done (PGIII)	Already applicable		Already applicable		Already applicable	
Chapter 2.14: Oxidizing solids		(Class 5, Division 5.1)	(Class 5, Division 5.1)		(Class 5, Division 5.1)		(Class 5, Division 5.1)	
	Category 1	Done (PGI)	Already applicable		Already applicable		Already applicable	
	Category 2	Done (PGII)	Already applicable		Already applicable		Already applicable	
	Category 3	Done (PGIII)	Already applicable		Already applicable		Already applicable	
Chapter 2.15: Organic peroxides		(Class 5, Division 5.2)	(Class 5, Division 5.2)		(Class 5, Division 5.2)		(Class 5, Division 5.2)	
	Types A to G	Done	Already applicable		Already applicable		Already applicable	
Chapter 2.16: Corrosive to metals		Class 8	Class 8		Class 8		Class 8	
	Category 1	Done (PGIII if not corrosive to skin)	Already applicable		Already applicable		Already applicable	
Chapter 3.2: Skin corrosion		Class 8	Class 8		Class 8		Class 8	
Category 1	Subcategory: 1A	Done (PGI)	Already applicable		Already applicable		Already applicable	
	Subcategory: 1B	Done (PGII)	Already applicable		Already applicable		Already applicable	
	Subcategory: 1C	Done (PGIII)	Already applicable		Already applicable		Already applicable	
Chapter 3.1: Acute toxicity (Liquids and solids)		Class 6 (Division 6.1)	Class 6 (Division 6.1)		Class 6 (Division 6.1)		Class 6 (Division 6.1)	
	Category 1	Done	Not done	Done	Not done	Done	Not done	Done
	Category 2	Done	Not done	Done	Not done	Done	Not done	Done
	Category 3	Done	Not done	Done	Not done	Done	Not done	Done
	Category 4	<i>Not applicable</i>	<i>Not applicable</i>		<i>Not applicable</i>		<i>Not applicable</i>	
	Category 5	<i>Not applicable</i>	<i>Not applicable</i>		<i>Not applicable</i>		<i>Not applicable</i>	

GHS hazards addressed in transport regulations	Model Regulations (Rev.14)	IMDG Code		ICAO TI		RID/ADR/ADN		
		Amendment 32-04 ^a	Amendment 33-06 ^b	(2005-2006 Edition) ^c	(2007-2008 Edition) ^d	2005 Edition ^e	2007 Edition ^f	
Chapter 3.1: Acute toxicity (Gases)	Division 2.3	Division 2.3	Division 2.3	Division 2.3	Division 2.3	Class 2 (Groups T, TF, TC TO, TFC, TOC)		
Category 1	Done	Done		Done		Done		
Category 2	Done	Done		Done		Done		
Category 3	Done	Done		Done		Done		
Category 4	<i>Not applicable</i>	<i>Not applicable</i>		<i>Not applicable</i>		<i>Not applicable</i>		
Category 5	<i>Not applicable</i>	<i>Not applicable</i>		<i>Not applicable</i>		<i>Not applicable</i>		
Chapter 4.1: Environmental hazards	Class 9	Class 9	Class 9	Class 9	Class 9	Class 9	Class 9	
Acute toxicity	Acute 1	Done *	Not done	Not done **	Not done	Done *, but optional	Not done	Not done
	Acute 2	<i>Not applicable</i> ***	<i>Not applicable</i>		<i>Not applicable</i>		<i>Not applicable</i>	
	Acute 3	<i>Not applicable</i> ***	<i>Not applicable</i>		<i>Not applicable</i>		<i>Not applicable</i>	
Chronic toxicity	Chronic 1	Done *	Not done	Not done **	Not done	Done *, but optional	Not done	Not done
	Chronic 2	Done *	Not done	Not done **	Not done	Done *, but optional	Not done	Not done
	Chronic 3	<i>Not applicable</i> ***	<i>Not applicable</i>		<i>Not applicable</i>		<i>Not applicable</i>	
	Chronic 4	<i>Not applicable</i> ***	<i>Not applicable</i>		<i>Not applicable</i>		<i>Not applicable</i>	

* Labelling required only if no other danger.

** Will be done through Amdt. 34-08 (Voluntary application as from 1 January 2009 - Mandatory application as from 1 January 2010). MARPOL Convention will be amended accordingly.

*** Categories addressed only for carriage in very large quantities (sea-going chemical tankers or inland navigation tank-vessels). The GHS criteria have been taken into account in the IMO criteria for the evaluation of safety and pollution hazards of chemicals in the context of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (CIBC Code) and Annex II to the MARPOL 73/78 Convention (See also GESAMP Report and Studies No.64, available on the IMO public website <http://gesamp.imo.org/publicat.htm>). The application of the GHS criteria for the carriage of dangerous liquids in bulk in tank-vessels is also presently under consideration for ADN and could become effective on 1 January 2009.